

FORM PTO 149
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

780068.416D1

APPLICATION NO.

10/622,182

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Jeffrey Van Ness et al.

FILING DATE

July 16, 2003

GROUP ART UNIT

1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
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	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	AP	Abdel-Baky, S. et al., "Detection of Electrophore-Labeled DNA and Albumin by Gas Chromatography: Labile Amide Electrophoric Release Tags," <i>Anal. Chem.</i> 65: 498-499, 1993.
JR	AQ	Eggers and Ehrlich, "A Review of Microfabricated Devices for Gene-Based Diagnostics," <i>Hematologic Pathology</i> 9(1): 1-15, 1995.
	AR	

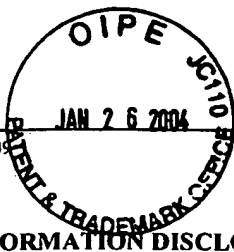
EXAMINER

/Jezia Riley/

DATE CONSIDERED

10/30/2006

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FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JR	AA	4,683,202	07/28/87	Mullis	435	91	
JR	AB	5,003,059	03/26/91	Brennan	536	27	
JR	AC	5,436,130	07/25/95	Mathies et al.	435	6	
JR	AD	6,312,893	11/06/01	Van Ness et al.	435	6	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
JR	AK	EP 351138 B1	03/08/95	EPO		
	AL					
	AM					
	AN					
	AO					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	AP		Toren, P.C. et al., "Determination of Impurities in Nucleoside 3'-Phosphoramidites by Fast Atom Bombardment Mass Spectrometry," <i>Analytical Biochemistry</i> 152(2): 291-294, February 1986.
	AQ		
	AR		

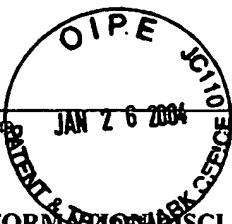
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JR	BA	4,650,750	03/17/87	Giese	435	7	
JR	BB	4,709,016	11/24/87	Giese	530	389	
JR	BC	4,762,779	08/09/88	Snitman	435	6	
JR	BD	4,775,619	10/04/88	Urdea	435	6	
JR	BE	4,942,124	07/17/90	Church	435	6	
JR	BF	4,962,020	10/09/90	Tabor et al.	435	6	
JR	BG	4,965,349	10/23/90	Woo et al.	536	27	
JR	BH	4,994,372	02/19/91	Tabor et al.	435	6	
JR	BI	4,997,928	03/05/91	Hobbs, Jr.	536	27	
JR	BJ	5,118,605	06/02/92	Urdea	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
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JR	BK	CA 2062454 A1	09/08/92	Canada		
JR	BL	EP 127 154 A2	12/05/84	EPO		
JR	BM	EP 251 786 A2	01/07/88	EPO		
JR	BN	EP 300 730 A1	01/25/89	EPO		
JR	BO	EP 360 940 A2	04/04/90	EPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	BP	Aebersold et al., "Design, synthesis, and characterization of a protein sequencing reagent yielding amino acid derivatives with enhanced detectability by mass spectrometry," <i>Protein Science</i> 1(4):494-503, April 1992.
JR	BQ	Amankwa and Kuhr, "Trypsin-Modified Fused-Silica Capillary Microreactor for Peptide Mapping by Capillary Zone Electrophoresis," <i>Anal. Chem.</i> 64:1610-1613, 1992.
JR	BR	Baldwin et al., "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags," <i>J. Am. Chem. Soc.</i> 117:5588-5589, 1995. (+Supplementary Material, 21 pages)

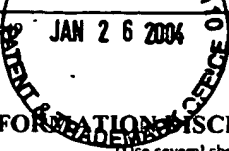
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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Jeffrey Van Ness et al.			
				FILING DATE July 16, 2003		GROUP ART UNIT 1645	

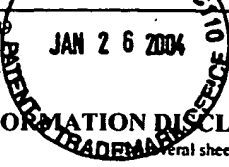
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JR	CA	5,135,870	08/04/92	Williams et al.	436	173	
JR	CB	5,149,625	09/22/92	Church et al.	435	6	
JR	CC	5,262,536	11/16/93	Hobbs, Jr.	546	25	
JR	CD	5,266,466	11/30/93	Tabor et al.	435	91.5	
JR	CE	5,288,644	02/22/94	Beavis et al.	436	94	
JR	CF	5,290,925	03/01/94	Fino	536	25.32	
JR	CG	5,292,873	03/08/94	Rokita et al.	536	24.3	
JR	CH	5,302,509	04/12/94	Cheeseman	435	6	
JR	CI	5,324,631	06/28/94	Helentjaris et al.	435	6	
JR	CJ	5,346,670	09/13/94	Renzoni et al.	422	52	

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
JR	CK	EP 401 821 A1	12/12/90	EPO		
JR	CL	EP 502 595 A2	09/09/92	EPO		
JR	CM	EP 514 927 A1	11/25/92	EPO		
JR	CN	EP 539 343 A1	04/28/93	EPO		
JR	CO	EP 639 647 A2	02/22/95	EPO		

OTHER ART <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>		
JR	CP	Borchardt and Still, "Synthetic Receptor Binding Elucidated with an Encoded Combinatorial Library," <i>J. Am. Chem. Soc.</i> 116:373-374, 1994.
JR	CQ	Brown et al., "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-Amino-3-(2-nitrophenyl)propionic acid," <i>Molecular Diversity</i> 1:4-12, 1995.
JR	CR	Ching et al., "Polymers as Surface-Based Tethers with Photolytic Triggers Enabling Laser-Induced Release/Desorption of Covalently Bound Molecules," <i>Bioconjugated Chemistry</i> 7(5):525-528, 1996.

EXAMINER <div style="text-align: center;">/Jezia Riley/</div>	DATE CONSIDERED <div style="text-align: center;">10/29/2006</div>
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		APPLICANTS Jeffrey Van Ness et al.		
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JR	DA	5,360,819	11/01/94	Giese	514	538	
JR	DB	5,403,708	04/04/95	Brennan et al.	435	6	
JR	DC	5,409,811	04/25/95	Tabor et al.	435	6	
JR	DD	5,451,463	09/19/95	Nelson et al.	428	402	
JR	DE	5,516,931	05/14/96	Giese et al.	560	59	
JR	DF	5,547,835	08/20/96	Köster	435	6	
JR	DG	5,602,273	02/11/97	Giese et al.	560	60	
JR	DH	5,604,097	02/18/97	Brenner	435	6	
JR	DI	5,604,104	02/18/97	Giese et al.	435	7.1	
JR	DJ	5,610,020	03/11/97	Giese et al.	435	7.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
JR	DK	EP 711 362 B1	05/15/96	EPO		
JR	DL	JP 06-289018	10/18/94	JPO (+WPI Abstract No. 95-001707)		
JR	DM	WO 89/12694	12/28/89	WIPO		
JR	DN	WO 90/13666	11/15/90	WIPO		
JR	DO	WO 92/02528	02/20/92	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	DP	Ching et al., "Surface Chemistries Enabling Photoinduced Uncoupling/Desorption of Covalently Tethered Biomolecules," <i>J. Org. Chem.</i> 61(11):3582-3583, May 31, 1996.
JR	DQ	Church and Kieffer-Higgins, "Multiplex DNA Sequencing," <i>Science</i> 240:185-188, 1988.
JR	DR	Church et al., "New Technologies For Genome Sequencing and Analysis," in <i>DOE Human Genome Program Contractor-Grantee Workshop V</i> , Sante Fe, New Mexico, January 28-February 1, 1996, available NTIS, CONF-960143, 1996, p. 51.

EXAMINER /Jezia Riley/	DATE CONSIDERED 10/29/2006
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FORM PTO-1349 (REV. 7-80)	JAN 26 2004	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 780068.416D1	APPLICATION NO. 10/622,182
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			APPLICANTS Jeffrey Van Ness et al.	
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JR	EA	5,622,824	04/22/97	Köster	435	6	
JR	EB	5,635,400	06/03/97	Brenner	435	320.1	
JR	EC	5,650,270	07/22/97	Giese et al.	435	6	
JR	ED	5,654,413	08/05/97	Brenner	536	22.1	
JR	EE	5,674,716	10/07/97	Tabor et al.	435	91.1	
JR	EF	5,691,141	11/25/97	Köster	435	6	
JR	EG	5,695,934	12/09/97	Brenner	435	6	
JR	EH	5,700,921	12/23/97	Westling et al.	536	22.1	
JR	EI	5,728,526	03/17/98	George, Jr. et al.	435	6	
JR	EJ	5,763,175	06/09/98	Brenner	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
JR	EK	WO 92/02638	02/20/92	WIPO		
JR	EL	WO 92/10587	06/25/92	WIPO		
JR	EM	WO 93/20233	10/14/93	WIPO		
JR	EN	WO 93/20236	10/14/93	WIPO		
JR	EO	WO 93/21340	10/28/93	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	EP	Cobb and Novotny, "High-sensitivity peptide mapping by capillary zone electrophoresis and microcolumn liquid chromatography, using immobilized trypsin for protein digestion," <i>Anal. Chem.</i> 61:2226-2231, 1989.
JR	EQ	Colombo, "Liquid-phase synthesis of naturally occurring peptides, II. Syntheses of three mast cell degranulating tetradecapeptide amides from wasp venoms," <i>Hoppe Seylers Z. Physiol. Chem.</i> 362(10):1393-1403, October 1981.
JR	ER	Covey et al., "The determination of protein, oligonucleotide and peptide molecular weights by ion-spray mass spectrometry," <i>Rapid Commun. Mass. Spectrom.</i> 2(11):249-256 November 1988.

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FORM PTO-147 (REV. 7-80) INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 780068.416D1	APPLICATION NO. 10/622,182
	APPLICANTS Jeffrey Van Ness et al.		
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JR	FA	5,821,058	10/13/98	Smith et al.	435	6	
JR	FB	5,851,765	12/22/98	Köster	435	6	
JR	FC	5,856,097	01/05/99	Pinkel et al.	435	6	
JR	FD	5,863,722	01/26/99	Brenner	435	6	
JR	FE	5,872,003	02/16/99	Köster	435	283.1	
JR	FF	5,908,745	06/01/99	Mirzabekov et al.	435	6	
JR	FG	5,952,654	09/14/99	Giese	250	288	
JR	FH	5,962,223	10/05/99	Whiteley et al.	435	6	
JR	FI	6,013,431	01/11/00	Söderlund et al.	435	5	
JR	FJ	6,027,890	02/22/00	Ness et al.	435	6	

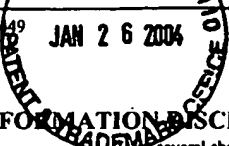
FOREIGN PATENT DOCUMENTS

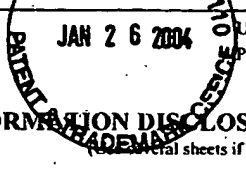
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JR	FK	WO 94/08051	04/14/94	WIPO		
JR	FL	WO 94/16101	07/21/94	WIPO		
JR	FM	WO 94/21822	09/29/94	WIPO		
JR	FN	WO 94/28418	12/08/94	WIPO		
JR	FO	WO 95/04160	02/09/95	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JR	FP	Geysen et al., "Isotope or mass encoding of combinatorial libraries," <i>Chemistry & Biology</i> 3(8):679-688, 1996.
JR	FQ	Giese et al., "Electrophore Mass Labels For TOF-MS DNA Sequencing," in <i>Proceedings of the 44th ASMS Conference on Mass Spectrometry and Allied Topics</i> , Portland, Oregon, May 12-16, 1996, p. 673.
JR	FR	Giese, "Electrophoretic release tags: ultrasensitive molecular labels providing multiplicity," <i>Trends in Analytical Chemistry</i> 2(7):166-168, 1983.

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*EXAMINER INITIAL	GA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
JR		6,033,909	03/07/00	Uhlmann et al.	435	375			
JR	GB	6,087,095	07/11/00	Rosenthal et al.	435	6			
JR	GC	6,087,186	07/11/00	Cargill et al.	436	518			
	GD								
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO				
JR	GE	WO 95/06752	03/09/95	WIPO					
JR	GF	WO 95/11961	05/04/95	WIPO					
JR	GG	WO 95/14108	05/26/95	WIPO					
JR	GH	WO 95/25737	09/28/95	WIPO					
JR	GI	WO 95/28640	10/26/95	WIPO					
JR	GJ	WO 96/00378	01/04/96	WIPO					
JR	GK	WO 96/22966	08/01/96	WIPO					
	GL								
OTHER ART <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>									
JR	GM	Greenberg and Gilmore, "Cleavage of Oligonucleotides from Solid-Phase Supports Using <i>o</i> -Nitrobenzyl Photochemistry," <i>J. Org. Chem.</i> 59:746-753, 1994.							
JR	GN	Greenberg, "Photochemical Cleavage of Oligonucleotides From Solid Phase Supports," <i>Tetrahedron Letters</i> 34(2):251-254, 1993.							
JR	GO	Hignite, "Nucleic Acids and Derivatives," in <i>Biochemical Applications of Mass Spectrometry, First Supplementary Volume</i> , Waller et al., (eds.), John Wiley & Sons, New York, 1981, pp.527-566.							
JR	GP	Holmes and Jones, "Reagents for Combinatorial Organic Synthesis: Development of New <i>o</i> -Nitrobenzyl Photolabile Linker for Solid Phase Synthesis," <i>J. Org. Chem.</i> 60:2318-2319, 1995. (+Supplementary Material, 7 pages)							
JR	GQ	Jacobson et al., "Applications of Mass Spectrometry to DNA Sequencing," <i>Genetic Analysis Techniques and Applications</i> 8(8):223-229, 1991.							
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	HA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	HB						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
JR	HC	Jane et al., "High-Performance Liquid Chromatographic Analysis of Basic Drugs on Silica Columns Using Non-Aqueous Ionic Eluents," <i>J. Chromatography</i> 323:191-225, 1985.					
JR	HD	Kremsky et al., "Immobilization of DNA via oligonucleotides containing an aldehyde or carboxylic acid group at the 5' terminus," <i>Nucleic Acids Research</i> 15(7):2891-2909, 1987.					
JR	HE	Little et al., "Rapid Sequencing of Oligonucleotides by High-Resolution Mass Spectrometry," <i>J. Am. Chem. Soc.</i> 116:4893-4897, 1994.					
JR	HF	Lloyd-Williams et al., "Convergent Solid-Phase Peptide Synthesis," <i>Tetrahedron</i> 49(48):11065-11133, 1993.					
JR	HG	Musch et al., "Expert System for Pharmaceutical Analysis. I. Selection of the Detection System in High-Performance Liquid Chromatographic Analysis: UV Versus Amperometric Detection," <i>J. Chromatography</i> 348:97-110, 1985.					
JR	HH	Nashabeh and El Rassi, "Enzymophoresis of nucleic acids by tandem capillary enzyme reactor-capillary zone electrophoresis," <i>J. Chromatography</i> 596:251-264, 1992.					
JR	HI	Nestler et al., "A General Method for Molecular Tagging of Encoded Combinatorial Chemistry Libraries," <i>J. Org. Chem.</i> 59:4723-4724, 1994.					
JR	HJ	Ordoukhanian and Taylor, "Design and Synthesis of a Versatile Photocleavable DNA Building Block. Application to Phototriggered Hybridization," <i>J. Am. Chem. Soc.</i> 117:9570-9571, 1995.					
JR	HK	Rich and Gurwara, "Preparation of a New <i>o</i> -Nitrobenzyl Resin for Solid-Phase Synthesis of <i>tert</i> -Butyloxycarbonyl-Protected Peptide Acids," <i>J. Am. Chem. Soc.</i> 97:1575-1579, 1975.					
JR	HL	Rock and Chan, "Synthesis and Photolysis Properties of a Photolabile Linker Based on 3'-Methoxybenzoin," <i>J. Org. Chem.</i> 61:1526-1529, 1996.					
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							YES	NO	
	IB								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
JR	IC	Sanger et al., "DNA sequencing with chain-terminating inhibitors," <i>PNAS USA</i> 74(12):5463-5467, December 1977.							
JR	ID	Senter et al., "Novel Photocleavable Protein Crosslinking Reagents and Their Use in the Preparation of Antibody-Toxin Conjugates," <i>Photochemistry and Photobiology</i> 42(3):231-237, 1985.							
JR	IE	Sumer et al., "Factors Determining Relative Sensitivity of Analytes in Positive Mode Atmospheric Pressure Ionization Mass Spectrometry," <i>Anal. Chem.</i> 60:1300-1307, 1988.							
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EXAMINER /Jezia Riley/					DATE CONSIDERED 10/29/2006				
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).									